

**.NET PROGRAMMING****LAB-9****IN-LAB**

At the Low level, you need to solve the following five tasks:

**TASK 1:** The character C and a sequence of non-empty strings stringList are given. Get a new sequence of strings with more than one character from the stringList, starting and ending with C.

**TASK 2:** A sequence of non-empty strings stringList is given. Get a sequence of ascending sorted integer values equal to the lengths of the strings included in the stringList sequence.

**TASK 3:** A sequence of non-empty strings stringList is given. Get a new sequence of strings, where each string consists of the first and last characters of the corresponding string in the stringList sequence.

**TASK 4:** A positive integer K and a sequence of non-empty strings stringList are given. Strings of the sequence contain only numbers and capital letters of the Latin alphabet. Get from stringList all strings of length K ending in a digit and sort them in ascending order.

**TASK 5:** A sequence of positive integer values integerList is given. Get sequence of string representations of only odd integerList values and sort in ascending order.

```
using System;
using System.Collections.Generic;
using System.Linq;
public class Program
{
    public static void Main(string[] args)
    {
        // Task 1
        char c = 'C';
        List<string> stringList1 = new List<string> { "Cats", "Dog", "Cake",
"Candy", "Apple" };
        List<string> result1 = stringList1.Where(s => s.StartsWith(c) &&
s.EndsWith(c) && s.Length > 2).ToList();
        Console.WriteLine("Task 1:");
        foreach (var item in result1)
        {
            Console.WriteLine(item);
        }
        Console.WriteLine();
        // Task 2
        List<string> stringList2 = new List<string> { "Apple", "Banana",
"Orange", "Grape" };
        List<int> result2 = stringList2.Select(s => s.Length).OrderBy(x =>
x).ToList();
```

```

        Console.WriteLine("Task 2:");
        foreach (var item in result2)
        {
            Console.WriteLine(item);
        }
        Console.WriteLine();
        // Task 3
        List<string> stringList3 = new List<string> { "Apple", "Banana",
"Orange", "Grape" };
        List<string> result3 = stringList3.Select(s => s[0].ToString() +
s[^1]).ToList();
        Console.WriteLine("Task 3:");
        foreach (var item in result3)
        {
            Console.WriteLine(item);
        }
        Console.WriteLine();
        // Task 4
        int K = 3;
        List<string> stringList4 = new List<string> { "AB1", "BC2", "CD3", "DE4",
"EF5", "FG6", "GH7", "HI8", "IJ9" };
        List<string> result4 = stringList4.Where(s => s.Length == K &&
char.IsDigit(s[^1])).OrderBy(s => s).ToList();
        Console.WriteLine("Task 4:");
        foreach (var item in result4)
        {
            Console.WriteLine(item);
        }
        Console.WriteLine();
        // Task 5
        List<int> integerList = new List<int> { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 };
        List<string> result5 = integerList.Where(x => x % 2 != 0).Select(x =>
x.ToString()).OrderBy(x => x).ToList();
        Console.WriteLine("Task 5:");
        foreach (var item in result5)
        {
            Console.WriteLine(item);
        }
    }
}

```

